

GenCore version 5.1.3
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OM Protein - protein search, using sw model

Run on: November 30, 2002, 12:35:03 ; Search time 11.5 Seconds
(without alignments)
1288.933 Million cell updates/sec

Title: US10-025-514-16

Perfect score: 2675

Sequence: MEDPQGDAAKQTDTSHHDDQD.....RDLKCCMGCGKSCVSPYKA 903

Scoring table: BLOSUM62

Gapext: 0.5

Searched: 262574 seqs, 29122922 residues

Total number of hits satisfying chosen parameters:

262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:
 1: /cgn2_6/pctodata/1/1aa/5A_COMB.pep:
 2: /cgn2_6/pctodata/1/1aa/5B_COMB.pep:
 3: /cgn2_6/pctodata/1/1aa/6A_COMB.pep:
 4: /cgn2_6/pctodata/1/1aa/6B_COMB.pep:
 5: /cgn2_6/pctodata/1/1aa/PCNUS_COH2C.pep:
 6: /cgn2_6/pctodata/1/1aa/backfilas1.pep:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	2030	75.9	394	3	US-09-023-339-1	Sequence 1, Appli
2	2030	75.9	418	1	US-08-121-714-3	Sequence 3, Appli
3	2030	75.9	418	1	US-08-177-108A-3	Sequence 3, Appli
4	2030	75.9	418	2	US-08-477-112-3	Sequence 3, Appli
5	2030	75.9	418	5	PCT-US53-08322-3	Sequence 3, Appli
6	2024	75.7	394	1	US-08-102-202-6	Sequence 6, Appli
7	2019	75.5	394	2	US-08-053-888A-6	Sequence 1, Appli
8	2018	75.4	394	1	US-08-002-205-11	Sequence 11, Appli
9	2014	75.3	394	3	US-08-081-534-6	Sequence 6, Appli
10	2013	75.3	394	1	US-08-002-202-9	Sequence 9, Appli
11	2008	75.1	394	3	US-08-481-534-11	Sequence 11, Appli
12	2003	74.9	394	3	US-08-481-534-9	Sequence 9, Appli
13	1988	74.3	414	1	US-08-002-202-17	Sequence 17, Appli
14	1988	74.3	414	3	US-08-481-534-17	Sequence 17, Appli
15	1982	74.1	414	1	US-08-002-202-13	Sequence 13, Appli
16	1982	74.1	414	3	US-08-481-534-13	Sequence 13, Appli
17	1977	73.9	414	1	US-08-002-202-19	Sequence 19, Appli
18	1977	73.9	414	3	US-08-481-534-11	Sequence 19, Appli
19	1392	52.0	308	1	US-07-859-880-2	Sequence 2, Appli
20	815.5	30.5	405	1	US-07-829-954-2	Sequence 2, Appli
21	815.5	30.5	405	1	US-07-994-423-2	Sequence 2, Appli
22	815.5	30.5	405	1	US-08-421-991-2	Sequence 2, Appli
23	638.5	23.9	132	1	US-08-034-501-21	Sequence 21, Appli
24	638.5	23.9	132	5	PCT-US53-1144521	Sequence 2, Appli
25	635	23.7	107	2	US-07-963-538B-4	Sequence 4, Appli
26	587	21.9	107	3	US-08-483-503A-4	Sequence 4, Appli
27	543.5	20.3	436	3	US-08-660-347-2	Sequence 2, Appli

Query Match 75.9%; Score 2030; DB 3; Length 394;
Best Local Similarity 100.0%; Pred. No. 6.7e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 EDPGQDAQKTDTSSHHDQDHTPTENKITPNLAEEFSLYRQLAHQSNSNTNIFSPVSIATA 61

RESULT 2
US-08-121-714-3

325 SVLGQLGITKVFSNGVTEEAPLKLSSKAVHKAVL

Db 325 SVLGQLGITRKVFSNGADLSGVTEAPLKLSKAHVAKULTIDEKGTEAAAGMFLEAIPMSI 384
D 325 SVLGQLGITRKVFSNGADLSGVTEAPLKLSKAHVAKULTIDEKGTEAAAGMFLEAIPMSI 384

RESULT 3
 US-08-477-108A-3 Application US/08477108A
 Patent No. 5801001
 GENERAL INFORMATION:
 APPLICANT: Sager, Ruth
 APPLICANT: Zou, Zhiqiang
 APPLICANT: Anisowicz, Anthony
 TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
 TITLE OF INVENTION: TUMOR SUPPRESSING ACTIVITY
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette 1.44 Mb
 COMPUTER: IBM PS/2 Model 502 or 55SX
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: Wordperfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/477,108A
 FILING DATE: June 7, 1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/121,714
 FILING DATE: 09/01/93
 APPLICATION NUMBER: 07/938,823
 FILING DATE: 09/01/92
 APPLICATION NUMBER: 07/844,296
 FILING DATE: 02/28/92
 APPLICATION NUMBER: 07/662,216
 FILING DATE: 02/28/91
 ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.
 REGISTRATION NUMBER: 34.819
 REFERENCE/DOCKET NUMBER: 06570/002002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: (617) 542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 418
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 US-08-477-108A-3

Query Match 75.9%; Score 2030; DB 1; Length 418;
 Best Local Similarity 100.0%; Pred. No. 7.3e-167;
 Matches 394; Conservative 0; Mismatches 0; Gaps 0;

Qy 2 EDPGDAAQKTDTSHHHDQHPTENKTPNLAEEAFASLYRQLAHQSNTNFFSPVSIATA 61
 Db 25 EDPGDAAQKTDTSHHHDQHPTENKTPNLAEEAFASLYRQLAHQSNTNFFSPVSIATA 84

Qy 62 FAMLSLGTKADTHDEILEGLNFNLTEIPEAQTHEGQELRTLNQDPSQLQTGNGLFL 121
 Db 85 FAMLSLGTKADTHDEILEGLNFNLTEIPEAQTHEGQELRTLNQDPSQLQTGNGLFL 144

Qy 122 SEGKLKVDFKLEDDVKLYHSEAFVNFGDTDEAKKOINDVEKGTKQKIVDLVKELDRDT 181
 Db 145 SEGKLKVDFKLEDDVKLYHSEAFVNFGDTDEAKKOINDVEKGTKQKIVDLVKELDRDT 204

Qy 182 VFAVLNVYIFPKGKWERPFEVKDTEEDFHVDQVTIVKVPANKRGMENICHKKLUSSWYL 241
 Db 205 VFAVLNVYIFPKGKWERPFEVKDTEEDFHVDQVTIVKVPANKRGMENICHKKLUSSWYL 264

Qy 242 LMKYLGNAATIFFLPDEGKLOHLENLTHITKELENDERSASLHLPKLSITCTYDLK 301
 Db 265 LMKYLGNAATIFFLPDEGKLOHLENLTHITKELENDERSASLHLPKLSITCTYDLK 324

Qy 302 SVLGQLGTTKVFNSNGADLSGVTEEAPELKLSSAVHKAVLTDEKGTEAAGMFLAEIPMSI 361
 Db 325 SVLGQLGTTKVFNSNGADLSGVTEAELKLSSAVHKAVLTDEKGTEAAGMFLAEIPMSI 384

Qy 362 PPEVKENKPFVFLMIEONTKSPLFMGKVNPQTQ 395
 Db 385 PPEVKENKPFVFLMIEONTKSPLFMGKVNPQTQ 418

RESULT 4
 US-08-477-112-3
 Sequence 3, Application US/08477112
 Patent No. 5905023
 GENERAL INFORMATION:
 APPLICANT: Sager, Ruth
 TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH TUMOR SUPPRESSING ACTIVITY
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804

COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 COMPUTER: IBM PS/2 Model 502 or 55SX
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: WordPerfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/477,112
 FILING DATE: US/08/477,112
 CLASSIFICATION: 536

RESULT 5
 PCT-US93-08322-3
 Sequence 3, Application PC/TUS9308322
 GENERAL INFORMATION:
 APPLICANT: Sager, Ruth
 TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH TUMOR SUPPRESSING ACTIVITY
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 COMPUTER: IBM PS/2 Model 502 or 55SX
 OPERATING SYSTEM: MS-DOS (Version 5.1)
 SOFTWARE: WordPerfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/08322
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/1938-823
 FILING DATE: 09/01/92
 APPLICATION NUMBER: 07/844,296
 FILING DATE: 02/28/92
 APPLICATION NUMBER: 07/662,216
 FILING DATE: 02/28/91
 ATTORNEY/AGENT INFORMATION:
 NAME: Fraser, Janis K.
 REGISTRATION NUMBER: 34,819
 REFERENCE/DOCKET NUMBER: 00530/072001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: 200154
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 418
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 PCT-US93-08322-3

Query	Match	Score	Length	Best Local Similarity	Score	Length	Best Local Similarity	Score	Length
Qy	2	EDPQGDAOKTDTSHHDDQHPTFNKTPNLAFAFSLYROLAHSNSTNIFSPVSIATA	61	75.9%	2030	DB 5;	75.7%	2044	DB 1;
Db	25	EDPQGDAQKTDTSHHDDQHPTFNKTPNLAFAFSLYROLAHSNSTNIFSPVSIATA	84	100.0%	Pred. No. 7.3e-167;	99.5%	Pred. No. 2.2e-166;	99.5%	99.5%
Qy	62	FAMLSLGTKAHTHDEILEGINFNITEIPEAQIHSGFOELLRTINQPSDOLQLTTGNGFL	121	0;	Indels	0;	Matches	392;	Indels
Db	85	FAMLSLGTKAHTHDEILEGINFNITEIPEAQIHSGFOELLRTINQPSDOLQLTTGNGFL	144	0;	Gaps	0;	Conservative	0;	Gaps
Qy	122	SEGLKLVDKPTEDVKLYHSEAFTYNFGDTEAAKQINDYVEKGTQKLVDFYKELDRDT	181	0;			0;		
Db	145	SEGLKLVDKPTEDVKLYHSEAFTYNFGDTEAAKQINDYVEKGTQKLVDFYKELDRDT	204	0;			0;		
Qy	182	VEALVNYIFFMGKWERPFPYKDTEEDHVYDQVTTVKPMMKRGMFNTQCKKLSSWVL	241	0;			0;		
Db	205	VEALVNYIFFMGKWERPFPYKDTEEDHVYDQVTTVKPMMKRGMFNTQCKKLSSWVL	264	0;			0;		
Qy	242	IMKLYGNATAIFLPDEGKQQLHLENLTIDITKLENDRSASLHPLKSLSTGYDK	301	0;			0;		
Db	265	IMKLYGNATAIFLPDEGKQQLHLENLTIDITKLENDRSASLHPLKSLSTGYDK	324	0;			0;		
Qy	302	SVLGQLGITKVFSNGADLSVTEAAMPLSKAVHKAVLTIDEKGTEAAAGMFLAIPMSI	361	0;			0;		
Db	325	SVLGQLGITKVFSNGADLSVTEAAMPLSKAVHKAVLTIDEKGTEAAAGMFLAIPMSI	384	0;			0;		
Qy	362	PPEVKENPKPVFLMIEQNTKSPLMGKVNPQK	395	0;			0;		
Db	385	PPEVKENPKPVFLMIEQNTKSPLMGKVNPQK	418	0;			0;		

RESULT 6
 US-08-002-202-6
 Sequence 6, Application US/08002202
 ; Patent No. 5604201
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Garry
 ; APPLICANT: Anderson, Eric D
 ; APPLICANT: Thomas, Laurel
 ; APPLICANT: Haylick, Joel S

; TITLE OF INVENTION: Methods and Reagents for Inhibiting
 ; TITLE OF INVENTION: Furin Endoprotease
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Allegretti and Witcoff, Ltd.
 ; STREET: 10 South Wacker Drive, Suite 3000
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/002,202
 ; FILING DATE: 08-JAN-1993
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5604201an, Kevin E
 ; REGISTRATION NUMBER: 35,30003
 ; REFERENCE/DOCKET NUMBER: 92,448
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-715-1000
 ; TELEFAX: 312-715-1234
 ; TELEX: 910-221-5317
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 394 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-002-202-6

Query	Match	Score	Length	Best Local Similarity	Score	Length	Best Local Similarity	Score	Length
Qy	2	EDFGQDAQKTDTSHHDDQHPTFNKTPNLAFAFSLYROLAHSNSTNIFSPVSIATA	61	75.7%	2044	DB 1;	99.5%	2024	DB 1;
Db	1	EDFGQDAQKTDTSHHDDQHPTFNKTPNLAFAFSLYROLAHSNSTNIFSPVSIATA	60	99.5%	2024	DB 1;	99.5%	2024	DB 1;
Qy	62	FAMLSLGTKAHTHDEILEGINFNITEIPEAQIHSGFOELLRTINQPSDOLQLTTGNGFL	121	0;			0;		
Db	61	FAMLSLGTKAHTHDEILEGINFNITEIPEAQIHSGFOELLRTINQPSDOLQLTTGNGFL	120	0;			0;		
Qy	122	SEGILKLVDKPTEDVKLYHSEAFTYNFGDTEAAKQINDYVEKGTQKLVDFYKELDRDT	181	0;			0;		
Db	121	SEGILKLVDKPTEDVKLYHSEAFTYNFGDTEAAKQINDYVEKGTQKLVDFYKELDRDT	180	0;			0;		
Qy	182	VFALVNYYFFMGKWERPFPYKDTEEDHVYDQVTTVKPMMKRGMFNTQCKKLSSWVL	241	0;			0;		
Db	181	VFALVNYYFFMGKWERPFPYKDTEEDHVYDQVTTVKPMMKRGMFNTQCKKLSSWVL	240	0;			0;		
Qy	242	LAKYGNATAIFLPDEGKQQLHLENLTIDITKLENDRSASLHPLKSLSTGYDK	301	0;			0;		
Db	241	LAKYGNATAIFLPDEGKQQLHLENLTIDITKLENDRSASLHPLKSLSTGYDK	300	0;			0;		
Qy	302	SVLGQLGITKVFSNGADLSVTEAAMPLSKAVHKAVLTIDEKGTEAAAGMFLAIPMSI	361	0;			0;		
Db	301	SVLGQLGITKVFSNGADLSVTEAAMPLSKAVHKAVLTIDEKGTEAAAGMFLAIPMSI	360	0;			0;		
Qy	362	PPEVKENPKPVFLMIEQNTKSPLMGKVNPQK	395	0;			0;		
Db	361	PPEVKENPKPVFLMIEQNTKSPLMGKVNPQK	394	0;			0;		

RESULT 7
 US-08-553-488A-1
 Sequence 1, Application US/0853488A
 ; Patent No. 5817484
 ; GENERAL INFORMATION:

APPLICANT: YU, Myeong-Hee
 APPLICANT: KWON, Ki-Sun
 APPLICANT: LEE, Kee-Nyung
 APPLICANT: SHIN, Hwa-Soo
 TITLE OF INVENTION: THIOMORESISTANT ALPHA-1-ANTITRYPSIN
 NUMBER OF SEQUENCES: 6
 ADDRESSEES: YU, Myeong-Hee
 STREET: 3-1003, Hankang Apartment, 49-8, Jamwon-dong,
 CITY: Seocho-gu
 STATE: Seoul
 COUNTRY: Republic of Korea
 ZIP: 137-030
 ADDRESSEE: KWON, Ki-Sun
 STREET: 130-1306, Hanbit Apartment, Oun-dong,
 CITY: Yusong-gu
 STATE: Taejon
 COUNTRY: Republic of Korea
 ZIP: 305-333
 ADDRESSEE: LEE, Kee-Nyung
 STREET: 105-1004, Hanbit Apartment, Oun-dong,
 CITY: Yusong-gu
 STATE: Taejon
 COUNTRY: Republic of Korea
 ZIP: 305-333
 ADDRESSEE: SHIN, Hwa-Soo
 STREET: 3-303, Sindonga Apartment, Yongjeon-dong,
 CITY: Dong-gu
 STATE: Taejon
 COUNTRY: Republic of Korea
 ZIP: 300-200
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
 COMPUTER: IBM PC/AT
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/553,488A
 FILING DATE: 20-NOV-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: KR 93-8510
 FILING DATE: 18-MAY-1993
 ATTORNEY/AGENT INFORMATION:
 NAME:
 REGISTRATION NUMBER:
 REFERENCE/DOCKET NUMBER:
 TELECOMMUNICATION INFORMATION:
 TELEPHONE:
 TELEFAX:
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 394 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 OTHER INFORMATION: wild type human '-1-antitrypsin
 US-08-553-488A-1

Query Match 75.5%; Score 2019; DB 2; Length 394;
 Best Local Similarity 99.2%; Pred. No. 5.9e-166;
 Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 EDPOGDAAQKTDTSHDQHPTENKTPNLAFAFSLYRQLAQNSNTNIFSPVSTAT 61
 Db 1 EDPOGDAAQKTDTSHDQHPTENKTPNLAFAFSLYRQLAQNSNTNIFSPVSTAT 60

Qy 62 FAMLSLGTKADPHDEILEGLNLNFNLTEPAQTHEGGQELLRTLNQDPSQLOLTGNGLFL 121
 Db 61 FAMLSVGTAKADPHDEILEGLNLNFNLTEPAQTHEGGQELLRTLNQDPSQLOLTGNGLFL 120

Qy 122 SEGKLKYDKFLEDKVLYHSEAFTYNFGDTPEAKQINDYVEKGTOGKIVDLYKEVDLDRDT 181
 Db 121 SEGKLKYDKFLEDKVLYHSEAFTYNFGDTPEAKQINDYVEKGTOGKIVDLYKEVDLDRDT 180

Qy 182 VPALVNYIFFKGKWERPEVKDTEEDHYDQVTYKVPMMKRLGFNIOHCKKLSSWVL 241
 Db 181 VPALVNYIFFKGKWERPEVKDTEEDHYDQVTYKVPMMKRLGFNIOHCKKLSSWVL 240

Qy 242 LMKYLGNTATAIFPLPBGKQQLHLENELDTDTKFLNEEDRSASHLPKLSITGTYDLK 301
 Db 241 LMKYLGNTATAIFPLPBGKQQLHLENELDTDTKFLNEEDRSASHLPKLSITGTYDLK 300

Qy 302 SVLGQLGITKVFSNGADLSGVTEAPIKLSKAVHVAVLTDDEKGTEAGAMFLEATPMSI 361
 Db 301 SVLGQLGITKVFSNGADLSGVTEAPIKLSKAVHVAVLTDDEKGTEAGAMFLEATPMSI 360

Qy 362 PPEVKENPKPEVFLMIEONTKSPLMKGKVNPYOK 395
 Db 361 PPEVKENPKPEVFLMIDONTKSPLMKGKVNPYOK 394

RESULT 8
 US-08-002-202-11
 Sequence 11, Application US/08/002202
 ; Paten No. 5604201
 ; GENERAL INFORMATION:
 ; ; APPLICANT: Thomas, Garry
 ; ; APPLICANT: Anderson, Eric D
 ; ; APPLICANT: Thomas, Laurel
 ; ; APPLICANT: Haylick, Joel S
 ; ; TITLE OF INVENTION: Methods and Reagents for Inhibiting
 ; ; Furin Endoprotease
 ; ; NUMBER OF SEQUENCES: 21
 ; ; CORRESPONDENCE ADDRESS:
 ; ; ADDRESSEE: Allegretti and Witcoff, Ltd.
 ; ; STREET: 10 South Wacker Drive, Suite 3000
 ; ; CITY: Chicago
 ; ; STATE: Illinois
 ; ; COUNTY: USA
 ; ; ZIP: 60606
 ; ; COMPUTER READABLE FORM:
 ; ; MEDIUM TYPE: Floppy disk
 ; ; COMPUTER: IBM PC compatible
 ; ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; ; CURRENT APPLICATION DATA:
 ; ; APPLICATION NUMBER: US/08/002,202
 ; ; FILING DATE: 08-JAN-1993
 ; ; CLASSIFICATION: 514
 ; ; ATTORNEY/AGENT INFORMATION:
 ; ; NAME: No. 5604201ian, Kevin E
 ; ; REGISTRATION NUMBER: 35,3003
 ; ; REFERENCE/DOCKET NUMBER: 92,448
 ; ; TELECOMMUNICATION INFORMATION:
 ; ; TELEPHONE: 312-715-1000
 ; ; TELEFAX: 312-715-1234
 ; ; TELEX: 910-221-5317
 ; ; INFORMATION FOR SEQ ID NO: 1:
 ; ; SEQUENCE CHARACTERISTICS:
 ; ; LENGTH: 394 amino acids
 ; ; TYPE: amino acid
 ; ; TOPOLOGY: linear
 ; ; MOLECULE TYPE: protein
 ; ; FEATURE:
 ; ; NAME/KEY: Protein
 ; ; LOCATION: 1..394
 ; ; OTHER INFORMATION: /label= Variants
 ; ; /note= "This amino acid sequence is the amino acid
 ; ; sequence of the modified alpha-1-antitrypsin
 ; ; OTHER INFORMATION:
 ; ; OTHER INFORMATION:

OTHER INFORMATION: variant, alpha-1-antitrypsin Pittsburgh *						
5-08-002-202-11						
Query Match	75.4%	Score 2018;	DB 1;	Length 394;		
Best Local Similarity	99.2%;	Pred. No.	7.2e-166;			
Matches	391; Conservative	2;	Mismatches	1;	Indels	0; G
Y	2	EDPQGDAQKTDTSHHDDQDHTENKTTPNLAEPFSLYRQLAHOSNSTNFFSPVSIATA				
b	1	EDPQGDAQKTDTSHHDDQDHTENKTTPNLAEPFSLYRQLAHOSNSTNFFSPVSIATA				
Y	62	FAMLSGTAKATHDELEGIAFNLTTEPEQIHDQFELLRTINQPSDQLQLETFQNGFL				
O	61	FAMLSGTAKATHDELEGIAFNLTTEPEQIHDQFELLRTINQPSDQLQLETFQNGFL				
Y	122	SEGLKLVDKFLEDVKVLYHSEAFTYNGFDTEAKQKQINDYVERKGQKLVLDYKELDRDT				
O	121	SOGKLKVYKLEDVKVLYHSEAFTYNGFDTEAKQKQINDYVERKGQKLVLDYKELDRDT				
Y	182	VFALVNYYIEFGKWERPFYKDTEEDFHVDQVTTVKVPMMKRGFMENIQHCKKLSSWVL				
O	181	VFALVNYYIEFGKWERPFYKDTEEDFHVDQVTTVKVPMMKRGFMENIQHCKKLSSWVL				
Y	242	LMKYLGATIAFFLPDGKQHQLENELTHLITTFELENEDRSASLHLPLKSITGTGTDLK				
O	241	LMKYGNATAFFLPDGKQHQLENELTHLITTFELENEDRSASLHLPLKSITGTGTDLK				
Y	302	SYVLGQLGITYKFSNGADLSGYTEAPLKLPSKAVHKAVLTIDEKTEAGAMFLAEIPMSI				
O	301	SYVLGQLGITYKFSNGADLSGYTEAPLKLPSKAVHKAVLTIDEKTEAGAMFLAEIPMSI				
Y	362	PEVKENKPKFVFLMIEONTSPLFENGKVNPTOK 3.95				
O	361	PEVKENKPKFVFLMIEONTSPLFENGKVNPTOK 3.94				

RESULT 9
S-08-481-534-6
Sequence 6, Application US/08481534
Patient NO. 602855
GENERAL INFORMATION:
APPLICANT: Thomas Gary
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel
APPLICANT: Hayflick, Joel S
APPLICANT: Nelson, Jay
APPLICANT: Stenglen, Stephan G
TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
TITLE OF INVENTION: Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,534
FILING DATE: 14-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 602855man, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,448-D
TELECOMMUNICATION INFORMATION:
TELEFAX: 312/913-0001

```

TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-481-334-6

Query Match 75.3%; Score 2014; DB 3; Length 394;
Best Local Similarity 99.0%; Pred. No. 1. 6e-165;
Matches 390; Conservative 3; Mismatches 1; Indels 0; Gaps 0.

Qy 2 EDPGQDAAKQDTTSHHIDQDHPTFNKTPNLAEEFAFSLYRQLAHQSNTNIFESPVSIATA 61
Db 1 EDPGQDAAKQDTTSHHIDQDHPTFNKTPNLAEEFAFSLYRQLAHQSNTNIFESPVSIATA 60

Qy 62 FAMLSLGTKAHTDHELEGIFNLFNLBIPAEQJHEGQELRPTLNPDSQQLTNGFL 121
Db 61 FAMLSLGTKAHTDHELEGIFNLFNLBIPAEQJHEGQELRPTLNPDSQQLTNGFL 120

Qy 122 SEGLKLVDKFLEDVKVLYHSEAFTYNFGDEEAKKQINIDYVEKGTOGKIVDLYKELDRT 181
Db 121 SGQLKLVDKFLEDVKVLYHSEAFTYNFGDEEAKKQINIDYVEKGTOGKIVDLYKELDRT 180

Qy 182 VFAALVNYTFFGKWERPEYKDTEEDDFHYDQVTTVKVPMMKRLGMFNIQHCKKLSSWVL 241
Db 181 VFAALVNYTFFGKWERPEYKDTEEDDFHYDQVTTVKVPMMKRLGMFNIQHCKKLSSWVL 240

Qy 242 LMKYLNATAFFLPDGGKQHLENELTHDLITKLENEEDRSASHLPKLSITGTYDJK 301
Db 241 LMKYLNATAFFLPDGGKQHLENELTHDLITKLENEEDRSASHLPKLSITGTYDJK 300

Qy 302 SVLGQLGITKYSFGNSGADLSGVTEEAFLKLSKAVKAVLTIDEKGTEAAAGMFLAIPMSI 361
Db 301 SVLGQLGITKYSFGNSGADLSGVTEEAFLKLSKAVKAVLTIDEKGTEAAAGMFLAIPMSI 360

Qy 362 PPEVKENPKPFVFLMIEQNTKSPLFMGKVYVNPFTOK 395
Db 361 PPEVKENPKPFVFLMIEQNTKSPLFMGKVYVNPFTOK 394

RESULT 1.0
US-08-002-202-9
; Sequence 9, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary D
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Haylick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endopeptidase
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002, 202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Kevin E. No. 5604201inan
; REGISTRATION NUMBER: 35,30003

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APPLICANT: Thomas, Laurel S
 APPLICANT: Hayflick, Joel S
 APPLICANT: Nelson, Jay
 APPLICANT: Stenglen, Stephan G
 TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
 TITLE OF INVENTION: Endoprotease
 NUMBER OF SEQUENCES: 21
 ADDRESSEES: McDonnell Boehnen Hulbert & Berghoff
 STREET: 300 South Wacker Drive
 CITY: Chicago
 STATE: IL
 COUNTRY: USA
 ZIP: 60606

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/481,534
 FILING DATE: 14-SEP-1995
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 602285nan, Kevin E
 REGISTRATION NUMBER: 35,303
 REFERENCE/DOCKET NUMBER: 92,448-D
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312-913-0001
 TELEX: 312-913-0002
 TELXEX:

INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 394 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Modified site
 LOCATION: 355...358
 OTHER INFORMATION: /label=Variant
 OTHER INFORMATION: / note="The amino acid sequence is the amino acid sequence of the modified alpha-1-antitrypsin protein, alpha-1-antitrypsin Portland."
 OTHER INFORMATION: protein, alpha-1-antitrypsin Portland."
 US-08-481-534-9

Query Match 74.9%; Score 2003; DB 3; Length 394;
 Best Local Similarity 98.5%; Pred. No. 1.4e-164;
 Matches 388; Conservative 3; MisMatches 0; Indels 0; Gaps 0;

QY 2 EDPGDAAQKTDTSHHDDQHPTENKTPNLAFAFSLYRQLAHOSNSTNIFSPVSIATA 61
 Db 1 EPQGDAAQKTDTSHHDDQHPTENKTPNLAFAFSLYRQLAHOSNSTNIFSPVSIATA 60

QY 62 FAMLSLGTKAOTHDEILEGNFLNTEPEAQIHEQFQELLRLNQPSDQSLQLTGNGFL 121
 Db 61 FAMLSLGTKAOTHDEILEGNFLNTEQFQELLRLNQPSDQSLQLTGNGFL 120

QY 122 SREGKLVDKFLEDVKLYHSAFTYNGEQTPEAKQINDYVEKGTKIVDLYKELDR 181
 Db 121 SGLKLVDKFLEDVKLYHSAFTYNGDTEQKROQINDYVEKGTKIVDLYKELDR 180

QY 182 VPALVNKIFFFGKWERPFEVKDTEEDFHVDQVITVKVPMKRLGMENIQCKKLSSWVL 241
 Db 181 VFAFLVNYIFFFGKWERPFEVKDTEEDFHVDQVITVKVPMKRLGMENIQCKKLSSWVL 240

QY 242 LMKLYGNATAFFLPDGKLQHLENLTHDTIKFLENEDRSASLHPKLSTGTYDLK 301
 Db 241 LMKLYGNATAFFLPDGKLQHLENLTHDTIKFLENEDRSASLHPKLSTGTYDLK 300

QY 302 SVLGQLGITKVYESNGADLSGYTEEAPLKLSKAVLKAVLTIDEKGTAEAGMFLAIPMSI 361
 Db 301 SVLGQLGITKVYESNGADLSGYTEEAPLKLSKAVLKAVLTIDEKGTAEAGMFLERIPRSI 360

QY 362 PPEVKENPKPFVFLMIEQNTKSPLFMGKVNPQTOK 395
 Db 361 PPEVKENPKPFVFLMIEQNTKSPLFMGKVNPQTOK 394

RESULT 1.3
 US-08-002-202-17
 Sequence 17, Application US/08002202

Patent No. 5604201
 GENERAL INFORMATION:
 APPLICANT: Thomas, Gary
 APPLICANT: Anderson, Eric D
 APPLICANT: Thomas, Laurel
 APPLICANT: Hayflick, Joel S
 TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin Endopeptidase
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Allegretti and Witcoff, Ltd.
 STREET: 10 South Wacker Drive, Suite 3000
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 ZIP: 60606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/002,202
 FILING DATE: 08-JAN-1993
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 5604201nan, Kevin E
 REGISTRATION NUMBER: 35,3003
 REFERENCE/DOCKET NUMBER: 92,448
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312-715-1000
 TELEX: 312-715-1234
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 414 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-002-202-17

Query Match 74.3%; Score 1988; DB 1; Length 414;
 Best Local Similarity 98.5%; Pred. No. 3e-163; 1; MisMatches 1; Indels 4; Gaps 1;
 Matches 388; Conservative 1;

QY 2 EDPGDAAQKTDTSHHDDQHPTENKTPNLAFAFSLYRQLAHOSNSTNIFSPVSIATA 61
 Db 25 EDPGDAAQKTDTSHHDDQHPTENKTPNLAFAFSLYRQLAHOSNSTNIFSPVSIATA 84

QY 62 FAMLSLGTKAOTHDEILEGNFLNTEPEAQIHEQFQELLRLNQPSDQSLQLTGNGFL 121
 Db 85 FAMLSLGTKAOTHDEILEGNFLNTEPEAQIHEQFQELLRLNQPSDQSLQLTGNGFL 140

QY 122 SEGKLVDKFLEDVKLYHSAFTYNGEQTPEAKQINDYVEKGTKIVDLYKELDR 181
 Db 141 SEGKLVDKFLEDVKLYHSAFTYNGDTEQKROQINDYVEKGTKIVDLYKELDR 200

QY 182 VFAFLVNYIFFFGKWERPFEVKDTEEDFHVDQVITVKVPMKRLGMENIQCKKLSSWVL 241
 Db 201 VFAFLVNYIFFFGKWERPFEVKDTEEDFHVDQVITVKVPMKRLGMENIQCKKLSSWVL 260

QY 242 LMKLYGNATAFFLPDGKLQHLENLTHDTIKFLENEDRSASLHPKLSTGTYDLK 301
 Db 261 LMKLYGNATAFFLPDGKLQHLENLTHDTIKFLENEDRSASLHPKLSTGTYDLK 320

Qy 302 SVLQIGITKVFSNGADLSGYTEAPLKLSKAVHKAVLTDEKGTEAAGMFLPAIPMSI 361
 Db 321 SVLGQIGITKVFSNGADLSGYTEAPLKLSKAVHKAVLTDEKGTEAAGMFLPAIPMSI 380

Qy 362 PPEVKENPKFVLMQNTSPLENGKVVNPDK 395
 Db 381 PPEVKENPKFVLMQNTSPLENGKVVNPDK 414

RESULT 14
 US-08-481-534-17
 Sequence 17, Application US/08481534
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Gary
 ; APPLICANT: Anderson, Eric D
 ; APPLICANT: Thomas, Laurel
 ; APPLICANT: Hayflick, Joel S
 ; APPLICANT: Neison, Jay
 ; APPLICANT: Stenglen, Stephan G
 ; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
 ; STREET: 300 South Wacker Drive
 ; CITY: Chicago
 ; STATE: IL
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/481,534
 ; FILING DATE: 14-SEP-1995
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 6022855man, Kevin E
 ; REGISTRATION NUMBER: 35,303
 ; REFERENCE/DOCKET NUMBER: 92,448-D
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-913-0001
 ; TELEX: 312-913-0002
 ; INFORMATION FOR SEQ ID NO: 17:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 414 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-481-534-17

Query Match 74.3%; Score 1988; DB 3; Length 414;
 Best Local Similarity 98.5%; Pred. No. 3e-163; 1;
 Matches 388; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

Db 201 VFALVNYFFKGKWERPFEVKDTEEDFHWDQVTTVKPMKRLGMFNHQCKKLSSWVL 260
 Qy 242 LMKYLGNTATAIFFLPDEGKLQHLENELTDITKFLENEDRSASLILPKLSITGTYDLK 301
 Db 261 LMKYLGNTATAMFFLPDEGKLQHLENELTDITKFLENEDRSASLILPKLSITGTYDLK 320
 Qy 302 SVLGQIGITKVFSNGADLSGYTEAPLKLSKAVHKAVLTDEKGTEAAGMFLPAIPMSI 361
 Db 321 SVLGQIGITKVFSNGADLSGYTEAPLKLSKAVHKAVLTDEKGTEAAGMFLPAIPMSI 380

Qy 362 PPEVKENPKFVLMQNTSPLENGKVVNPDK 395
 Db 381 PPEVKENPKFVLMQNTSPLENGKVVNPDK 414

RESULT 15
 US-08-002-202-13
 ; Sequence 13, Application US/08002202
 ; Patent No. 5604201
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Garry
 ; APPLICANT: Anderson, Eric D
 ; APPLICANT: Thomas, Laurel
 ; APPLICANT: Hayflick, Joel S
 ; TITLE OF INVENTION: Methods and Reagents for Inhibiting
 ; Furin Endoprotease
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Allegretti and Witcoff, Ltd.
 ; STREET: 10 South Wacker Drive, Suite 3000
 ; CITY: Chicago
 ; STATE: IL
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC Compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/002,202
 ; FILING DATE: 08-JAN-1993
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5604201man, Kevin E
 ; REGISTRATION NUMBER: 35,303
 ; REFERENCE/DOCKET NUMBER: 92,448
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-715-1234
 ; TELEX: 910-221-3317
 ; INFORMATION FOR SEQ ID NO: 13:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 414 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-002-202-13

Query Match 74.1%; Score 1982; DB 1; Length 414;
 Best Local Similarity 98.2%; Pred. No. 9.8e-163; 1;
 Matches 387; Conservative 1; Mismatches 2; Indels 4; Gaps 1;

Db 2 EDPGDAAQKTDTSHHQDHPTENKTPNLAEEFAFSLYRQLAHOSNSTNIFSPVSIATA 61
 Qy 2 EDPGDAAQKTDTSHHQDHPTENKTPNLAEEFAFSLYRQLAHOSNSTNIFSPVSIATA 61
 Db 25 EDPGDAAQKTDTSHHQDHPTENKTPNLAEEFAFSLYRQLAHOSNSTNIFSPVSIATA 84

Qy 62 FAMLSLGTKADTHDEILEGLNFNLTEPEAQIHEGFOELLRTLNQBDSQLQTGNGLF 121
 Db 85 FAMLSLGTKADTHDEILEGLNFNLTEPEQTHEGFOELLRTLN---QLQTTGNGLF 140

Qy 122 SEGKLVDKFLEDVKVLYHSEAFYNGDTEAKQINDVEKGTOGKIVDVKELDRDT 181
 Db 141 SEGKLVDKFLEDVKVLYHSEAFYNGDTEAKQINDVEKGTOGKIVDVKELDRDT 200

Qy 182 VFALVNYFFKGKWERPFEVKDTEEDFHWDQVTTVKPMKRLGMFNHQCKKLSSWVL 241

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Db 141 SRGLKLVDKFLEDVKLYHSAFTYVPEYDTEEDFHDQVITVKPMKRIGMENIQHCKRKLSSWLT 200
Qy 182 VPALVNIEFGKWERPFEYDTEEDFHDQVITVKPMKRIGMENIQHCKRKLSSWLT 241
Db 201 VPALVNIEFGKWERPFEYDTEEDFHDQVITVKPMKRIGMENIQHCKRKLSSWLT 260
Qy 242 LMKLYGNATAFLFLPDEGKLUOHLNELTHDITKELENDERSASLHPLPKLSTIGTYDK 301
Db 261 LMKLYGNATAFLFLPDEGKLUOHLNELTHDITKELENDERSASLHPLPKLSTIGTYDK 320
Qy 302 SYLGOLGITKVFSNGADLSGYTEAPLKLSKAVKLTDEKTEAGAMPLEAIPMSI 361
Db 321 SYLGOLGITKVFSNGADLSGYTEAPLKLSKAVKLTDEKTEAGAMPLEAIPRSI 380
Qy 362 PPEVKFNKPFPVFLMIEQNTKSPLFNGKVNPQK 395
Db 381 PPEVKFNKPFPVFLMIEQNTKSPLFNGKVNPQK 414

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Search completed: November 30, 2002, 12:38:14
 Job time : 13.5 secs